

<b>Notice of Allowability</b>	Application No.	Applicant(s)
	10/657,501	KIM ET AL.
	Examiner	Art Unit
	CongVan Tran	2617

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1.  This communication is responsive to 09/08/03.
2.  The allowed claim(s) is/are 1-15.
3.  Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a)  All
  - b)  Some\*
  - c)  None
 of the:
  1.  Certified copies of the priority documents have been received.
  2.  Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3.  Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

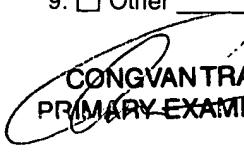
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4.  A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5.  CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
  - (a)  including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
    - 1)  hereto or 2)  to Paper No./Mail Date \_\_\_\_\_.
  - (b)  including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6.  DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

#### Attachment(s)

1.  Notice of References Cited (PTO-892)
2.  Notice of Draftsperson's Patent Drawing Review (PTO-948)
3.  Information Disclosure Statements (PTO/SB/08),  
Paper No./Mail Date \_\_\_\_\_
4.  Examiner's Comment Regarding Requirement for Deposit  
of Biological Material
5.  Notice of Informal Patent Application
6.  Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_\_.
7.  Examiner's Amendment/Comment
8.  Examiner's Statement of Reasons for Allowance
9.  Other \_\_\_\_\_

  
**CONGVAN TRAN**  
**PRIMARY EXAMINER**

CongVan Tran  
 Primary Examiner  
 Art Unit: 2617

## DETAILED ACTION

1. Examiner has approved the drawings filed on Sept. 09, 2003.

### *Drawings*

2. Claims 1-15 allowed.

### *Allowable Subject Matter*

3. Examiner has approved the drawings filed on Sept. 09, 2003.
4. The following is an examiner's statement of reasons for allowance:

Regarding claims 1, 5, 9, and 10, although, the prior arts disclose outputting a codeword of length 20, which is used when a high-speed downlink packet access (HSDPA) service is not supported. However, none of them teach permuting 15 coded bits that are coded by the code as a code of length 15, which is used when the HSDPA service is supported, among the 20 coded bits constituting the codeword, thereby locating the 15 coded bits in the CQI field, and permuting the 5 remaining coded bits to be located in the HS-Pilot field as specifically described in claimed.

Regarding claims 11, and 13-15, although, the prior arts disclose outputting a codeword of length 20, which is used when a high-speed downlink packet access (HSDPA) service is not supported. However, none of them teach outputting a codeword of length 20 by coding the CQI information bits with a basis vector stream generated by moving 16th and 17th basis vectors in a basis vector stream of length 20, which is used when a high speed downlink packet access (HSDPA) service is not supported, to positions of 1st and 2nd basis vectors and shifting basis vectors in 1st to 15th positions; and sequentially arranging the 20 coded bits constituting the codeword in a CQI field

and a high-speed pilot (HS-Pilot) field constituting the sub frame as specifically described in claimed.

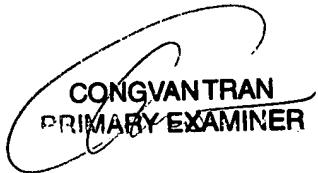
Claims 2-4, 6-8 and 12 are allowed as being dependent on independent claims 1, 5 and 11.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to CongVan Tran whose telephone number is 571-272-7871. The examiner can normally be reached on Monday-Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Marsha Bank can be reached on 571-272-7876. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



CONGVAN TRAN  
PRIMARY EXAMINER

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Jan. 19, 2007.